

011037



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C3-HC-OH
Job Sheet 196083



REPRINT

Part No: C3-HC-OH

Job Qty: 1 pcs

Part Name: C-Series Remote Hook 3,000 lbs Lift Capacity With Cage



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 6/5/19

Job Tracking No:

Due Date: 7/24/19

Created By: Jennifer Renwick

Type: SOLD

Description: RA699 / Order 16945 / 03-2344-07

Note: DWG O&OPM-C3 Rev. 4 IPP Rev. A 18.05.15 new issue DP Verify DD/IPP Rev. B 19.06.05 New process DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier Lead Time		
110	External Load - Issue SN	1 pcs	7/24/19	0.00	0.00	External Load - 1			
						External Load - 2			
						External Load - 3			
115	External Load - 2 - B4B	1 pcs	7/24/19	0.00	1.00	External Load - 1 - B4B			
						External Load - 2 - B4B			
						External Load - 3 - B4B			
120	QC 5	1 pcs	7/24/19	0.00	0.00	QC 5 - 10			
						QC 5 - 12			
						QC 5 - 17			
						QC 5 - 18			
						QC 5 - 19			
						QC 5 - 22			
						QC 5 - 24			
						QC 5 - 3			
						QC 5 - 43			
						QC 5 - 49			
						QC 5 - 51			
						QC 5 - 58			
						QC 5 - 68			
						QC 5 - 9			
						QC 5 - 50			
						QC 5 - 30			
						QC 5 - 40			
130	Customer Acceptance	1 pcs	7/24/19	0.00	0.00				
140	Outsource - 2 - NDT per QSI038	1 pcs	7/24/19			SKY002-VC	10		
150	Packaging 2-1 - Receive - B4B	1 pcs	7/24/19	0.00	0.00	Packaging 2 - 1 - B4B			
						Packaging 2 - 2 - B4B			
						Packaging 2 - 3 - B4B			

See attached

Plex 7/19/19 8:48 AM Dart.Guerin.Kimberley

<i>See Attached</i>				Packaging 2 - 5 - B4B	
				Packaging 2 - 4 - B4B	
				Packaging 2 - 6 - B4B	
				Packaging 2 - 7 - B4B	
				Packaging 2 - 8 - B4B	
				Packaging 2 - 9 - B4B	
				Packaging 2 - 10 - B4B	
				Packaging 2 - 11 - B4B	
				Packaging 2 - 12 - B4B	
				Packaging 2 - 13 - B4B	
				Packaging 2 - 14 - B4B	
				Packaging 2 - 15 - B4B	
				Packaging 2 - 16 - B4B	
				Packaging 2 - 17 - B4B	
				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
160 QC 6	1 pcs	7/24/19	0.00 0.00	QC 6 - 9	
				QC 6 - 68	
				QC 6 - 61	
				QC 6 - 40	
165 External Load - 3 - B4B	1 pcs	7/24/19	0.00 0.50	External Load - 1 - B4B	
				External Load - 2 - B4B	
				External Load - 3 - B4B	
170 QC 5	1 pcs	7/24/19	0.00 0.00	QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
				QC 5 - 40	
175 Outsource - 15 - Nickel Plate	1 pcs	7/24/19		GRO002-VC	

180 Packaging 2-2 - Receive - B4B	1 pcs	7/24/19	0.00 0.00	Packaging 2 - 1 - B4B	
				Packaging 2 - 2 - B4B	
				Packaging 2 - 3 - B4B	
				Packaging 2 - 5 - B4B	
				Packaging 2 - 4 - B4B	
				Packaging 2 - 6 - B4B	
				Packaging 2 - 7 - B4B	
				Packaging 2 - 8 - B4B	
				Packaging 2 - 9 - B4B	
				Packaging 2 - 10 - B4B	
				Packaging 2 - 11 - B4B	
				Packaging 2 - 12 - B4B	
				Packaging 2 - 13 - B4B	
				Packaging 2 - 14 - B4B	
				Packaging 2 - 15 - B4B	
				Packaging 2 - 16 - B4B	
				Packaging 2 - 17 - B4B	
				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
185 QC 6	1 pcs	7/24/19	0.00 0.00	QC 6 - 9	
				QC 6 - 68	
				QC 6 - 61	
				QC 6 - 40	
186 Outsource - 15 - Nickel Plate	1 pcs	7/24/19		GRO002-VC	2019-07-19
187 Packaging 2-3 - Receive - B4B	1 pcs	7/24/19	0.00 0.00	Packaging 3 - 1 - B4B	
188 QC 6	1 pcs	7/24/19	0.00 0.00	QC 6 - 40	
190 External Load - 4 - B4B	1 pcs	7/24/19	0.00 2.00	External Load - 1 - B4B	AP 2019/08/01
				External Load - 2 - B4B	Mud 2019/08/01
				External Load - 3 - B4B	
195 QC 5	1 pcs	7/24/19	0.00 0.00	QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	

					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	DAS 30 9-89 AUG 01 2019
					QC 5 - 40	
200	Packaging 3-1 - Stock - B4B	1 pcs	7/24/19	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	DAS 30 9-89 AUG 01 2019
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	DAS 21 9-89 AUG 01 2019
210	DC - 1 - B4B	1 pcs	7/24/19	0.00 0.00	DC - 1 - B4B	DAS 21 9-89 AUG 01 2019
					DC - 2 - B4B	
220	QC 21 - FG	1 pcs	7/24/19	0.00 0.00	QC 21 - FG - 21	DAS 21 9-89 AUG 01 2019
					QC 21 - FG - 70	
					QC 21 - FG - 53	

Part Op 110 - Issue S/N

Descriptions: 115 - 1-Remove hook from cage and identify as required. 2-TEST HOOK ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART

120 - (QC5- Inspect part completeness to step on W/O)

140 - LIQUID PENETRANT INSPECTION AS PER QSI 038

150 - (Receive & Inspect for Damage & Mat'l Certs)

160 - (QC6- All purchased or subcontracted products) 1-Triage parts to be sent out for plating

165 - Prepare for nickel plate

170 - (QC5- Inspect part completeness to step on W/O)

175 - -Issue P/O; _____-Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required

180 - (Receive & Inspect for Damage & Mat'l Certs)

185 - (QC6- All purchased or subcontracted products)

186 - -Issue P/O; _____-Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required

190 - 1-RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY. 2-Test hook as per drawing and test form. 3-RE-ASSEMBLE hook to cage.

195 - (QC5- Inspect part completeness to step on W/O)

200 - (Identify as per dwg & Stock Location:_____)

210 - (Document Control) Photocopy blue file and create labels

220 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-HC-AR	C-Series Remote Hook 3,000 lbs Lift Capacity With Cage	1 Ea (1 ea)	110-External Load - Issue SN	
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	190-External Load - 4 - B4B	
188-FSCS-832-5/8	Clock Spring Cover Screw	4 Ea (4 ea)	190-External Load - 4 - B4B	
600.1309-A	Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
600.1313	C3 Warning Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
AN4-16A	Bolt	3 Ea (3 ea)	190-External Load - 4 - B4B	
AN4-17A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	
AN6-15A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	
C2-11-2	Locating Pin	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-14-2	Label Rivets	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-1	Latch Shaft Du Bearing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-3-1	Latch Roller DU Bearing	1 pcs (1 ea)	190-External Load - 4 - B4B	
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-8	Actuator Shaft Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-10-2	Lock Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-12-1	Lock Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-12-2	Lock Shaft - C3 Hook	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-12-4	Lock Roller	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-12-6	Lock Roller Pin Circlip	2 Ea (2 ea)	190-External Load - 4 - B4B	
C3-13-1	Keeper Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-13-5	Spring, Keeper	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-3-4	Link Pin	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	190-External Load - 4 - B4B	
C3-3-9	Actuator Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-4-1	Load Beam Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-7-1	Load Beam Bumper	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-7-2	Lock Bumper	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-8-5	Solenoid Cover	1 pcs (1 ea)	190-External Load - 4 - B4B	
MS21044N4	Nut, Self-Locking	4 Ea (4 ea)	190-External Load - 4 - B4B	
MS21083N3	Nut	2 Ea (2 ea)	190-External Load - 4 - B4B	
MS21083N6	Nut	1 Ea (1 ea)	190-External Load - 4 - B4B	
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	
NAS1149F0332P	Washer (AN960-10L)	2 Ea (2 ea)	190-External Load - 4 - B4B	
NAS1149F0363P	Washer (AN960-10)	1 Ea (1 ea)	190-External Load - 4 - B4B	
NAS1149F0432P	Washer (AN960-416L)	4 Ea (4 ea)	190-External Load - 4 - B4B	
NAS1149F0632P	Washer (AN960-616L)	2 Ea (2 ea)	190-External Load - 4 - B4B	

Loctite 242 (5186572)
 Loctite 620 (5194792)
 Aeroshell grease NO.7 (5138964)
 Saf-T-eye (M138973)

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-External Load - Issue SN	C3-HC	1	0	0
190-External Load - 4 - B4B	188-FPSS-1032-1/4	2	121	0
	188-FSCS-832-5/8	4	225	0
	600.1309-A	1	72	0
	600.1313	1	28	0
	AN4-16A	3	1,146	0
	AN4-17A	1	390	0
	AN6-15A	1	29	0
	C2-11-2	2	46	0
	C2-14-2	2	118	0
	C2-3-1	2	78	0
	C2-3-2-1	2	44	0
	C2-3-3-1	1	33	0
	C2-3-5	2	25	0
	C2-3-8	2	60	0
	C3-10-2	1	33	0
	C3-12-1	2	54	0
	C3-12-2	1	21	0
	C3-12-4	1	30	0
	C3-12-6	2	70	0
	C3-13-1	2	48	0
	C3-13-5	1	36	0
	C3-3-4	2	12	0
	C3-3-4-1	4	43	0
	C3-3-9	1	38	0
	C3-4-1	2	53	0
	C3-7-1	1	22	0
	C3-7-2	2	38	0
	C3-8-4	1	29	0
	C3-8-5	1	9	0
	MS21044N4	4	57	0
	MS21083N3	2	89	0
	MS21083N6	1	56	0
	MS35266-63	1	29	0
	NAS1149F0332P	2	2,444	0
	NAS1149F0363P	1	372	0
	NAS1149F0432P	4	1,432	0
	NAS1149F0632P	2	326	0
Part Specifications				
Specifications could not be found.				

Plex 7/19/19 8:48 AM Dart.Guerin.Kimberley

OH 196083

011037

				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
210 DC - 1 - B4B	1	7/24/19	0.00 0.00	DC - 1 - B4B	
	pcs			DC - 2 - B4B	
220 QC 21 - FG	1	7/24/19	0.00 0.00	QC 21 - FG - 21	
	pcs			QC 21 - FG - 70	
				QC 21 - FG - 53	

Part Op 110 - Issue S/N
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 165 - Prepare for nickel plate
 175 - Issue P/O; _____ -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required
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 190 - 1-RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY. 2-Test hook as per drawing and test form. 3-RE-ASSEMBLE hook to cage.
 195 - (QC5- Inspect part completeness to step on W/O)
 200 - (Identify as per dwg & Stock Location: _____)
 210 - (Document Control) Photocopy blue file and create labels
 220 - (QC21- Final Inspection - Work Order Release)

MS2104426

NOT

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Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-HC-AR	C-Series Remote Hook 3,000 lbs Lift Capacity With Cage	1 Ea (1 ea)	110-External Load - Issue SN	
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	190-External Load - 4 - B4B	5110495
188-FSCS-832-5/8	Clock Spring Cover Screw	4 Ea (4 ea)	190-External Load - 4 - B4B	5126989
600-1309-A	Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
600-1313	C3 Warning Label	1 pcs (1 ea)	190-External Load - 4 - B4B	5184239
AN4-16A	Bolt	3 Ea (3 ea)	190-External Load - 4 - B4B	5157301-3
AN4-17A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	5157429-3
AN6-15A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	5183433
C2-14-2	Label Rivets	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-1	Latch Shaft Du Bearing	2 pcs (2 ea)	190-External Load - 4 - B4B	5177832
C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	190-External Load - 4 - B4B	5168898
C2-3-3-1	Latch Roller DU Bearing	1 pcs (1 ea)	190-External Load - 4 - B4B	5120798
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	190-External Load - 4 - B4B	5111642
C2-3-8	Actuator Shaft Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5196195
C3-10-2	Lock Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	5197483
C3-12-1	Lock Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5181364
C3-12-6	Lock Roller Pin Circlip	2 Ea (2 ea)	190-External Load - 4 - B4B	5157956
C3-13-1	Keeper Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5189919
C3-13-5	Spring, Keeper	1 pcs (1 ea)	190-External Load - 4 - B4B	5146022
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	190-External Load - 4 - B4B	5137712
C3-3-9	Actuator Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	5128685
C3-4-1	Load Beam Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	5180767
C3-7-1	Load Beam Bumper	1 pcs (1 ea)	190-External Load - 4 - B4B	5186739
C3-7-2	Lock Bumper	2 pcs (2 ea)	190-External Load - 4 - B4B	5189979
C3-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	190-External Load - 4 - B4B	5180680
MS21044N4	Nut, Self-Locking	4 Ea (4 ea)	190-External Load - 4 - B4B	5196530
MS21083N3	Nut	2 Ea (2 ea)	190-External Load - 4 - B4B	5142051
MS21083N6	Nut	1 Ea (1 ea)	190-External Load - 4 - B4B	5181232
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	5078256
NAS1149F0332P	Washer	2 Ea (2 ea)	190-External Load - 4 - B4B	5103666-1
NAS1149F0363P	Washer	1 Ea (1 ea)	190-External Load - 4 - B4B	5027738
NAS1149F0432P	Washer	8 Ea (4 ea)	190-External Load - 4 - B4B	5131202
NAS1149F0632P	Washer	2 Ea (2 ea)	190-External Load - 4 - B4B	5048397

C3-3-4 link pin (2 ea)

5118503

C2-11-2 Pin (2 ea)

5061528

C3-12-2 Lock shaft (1 ea)

5080193

C3-12-4 Lock roller (1 pcs)

5100620

C3-8-5 solenoid cover x1 pc

5153419

S175058

8183K6 grip cord x1 pc

5118247

S133295

C2-10-1 spring pin 1 pc

5068051

C2-5-1 doll pin 1 pc

5072964

32446 TERMINAL 2

J01004-08-047

WIRE

1

S179682



Overhaul Incoming Inspection
C10 Cargo Hook

Customer

OH 196083

^{OR}
~~AA~~ 16945

Date

2019/06/24

Part Number

C3

Serial Number

03-2344-07

ORDER : 16945

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(2) C3-3-4 LINK PIN

☐

(2) C2-11-2 PIN

☐

(1) C3-12-2 LOCK SHAFT

☐

(1) C3-12-4 LOCK ROLLER

☐

(1) C3-8-5 SELENOID COVER

☐☐☐☐☐☐

Inspected By

ALAN PATRY

Work Order OH 196083/RA699 Customer ORDER: 16945Serial Number 03-2344-07 Date 2019/06/24**MAGNAFLUX**

Part Number	Description	Quantity	
C3-4-4A	Load Beam	1	
C2-3-11	Actuator Shaft	1	
C3-3-7	Link	1	
C3-3-4	Link Pins	—	
C2-3-6	Latch	1	
C2-3-3	Latch Roller	1	
C2-3-2	Latch Roller Pin	1	
C2-3-10	Latch Shaft	1	
C3-12-3	Lock	1	
C3-12-2	Lock Shaft	—	
C3-12-4	Lock Roller	—	
C3-12-5	Lock Roller Pin	1	

ZYGLO

Part Number	Description	Quantity	Pass/Fail
C3-2-1	Side Plate	1	
C3-11-1	Side Plate Solenoid	1	

TOTAL : 11 Pcs

Test Conducted By: _____

Signature: _____



Remote Cargo Hook Test Form

C3

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

NEW SOLENOID (152951-001)

Work Order OH 196083

Customer RA 699

Serial Number 03-2344-07

Date 2019-7-23

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	7,500	Static Hold	Hold for two minutes and reduce load to zero	N/A	<u>Pass</u>
10	1,500	Electircal, 25 volts	No "hang ups" permitted	N/A	<u>Pass</u>
2	3,000	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>8.9</u> A	<u>Pass</u>
2	2,500	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>8.8</u> A	<u>Pass</u>
2	2,000	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>8.5</u> A	<u>Pass</u>
2	1,500	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>8.8</u> A	<u>Pass</u>
2	500	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>8.4</u> A	<u>Pass</u>
1	3,000	Electircal, 20 volts	Current shall not exceed 11.6 A	<u>7.6</u> A	<u>Pass</u>
1	3,000	Electircal, 28 volts	Current shall not exceed 16.2 A	<u>11.0</u> A	<u>Pass</u>
1	3,000	Manual		N/A	<u>Pass</u>
1	3,000	Impact Test	Impact shackle 10x , shall not release	N/A	<u>Pass</u>
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ω	<u>1.7</u> Ω	<u>Pass</u>
1	N/A	Electircal Continuity	Across both wires	N/A	<u>Pass</u>

Test Conducted By:

Meekil Lalande

Technician

Submit

Signature:

Sylvie Baucher
QC / Small FAB / QA



Remote Cargo Hook Test Form

C3

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

NEW SOLENOID (152951-001)

Work Order OH 196083

Customer RA 699

Serial Number 03-2344-07

Date 2019-7-23

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	7,500	Static Hold	Hold for two minutes and reduce load to zero	N/A	<u>Pass</u>
10	1,500	Electrical, 25 volts	No "hang ups" permitted	N/A	<u>Pass</u>
2	3,000	Electrical, 22 volts	Current shall not exceed 12.8 A <u>8.9</u>	A	<u>Pass</u>
2	2,500	Electrical, 22 volts	Current shall not exceed 12.8 A <u>8.8</u>	A	<u>Pass</u>
2	2,000	Electrical, 22 volts	Current shall not exceed 12.8 A <u>8.5</u>	A	<u>Pass</u>
2	1,500	Electrical, 22 volts	Current shall not exceed 12.8 A <u>8.8</u>	A	<u>Pass</u>
2	500	Electrical, 22 volts	Current shall not exceed 12.8 A <u>8.4</u>	A	<u>Pass</u>
1	3,000	Electrical, 20 volts	Current shall not exceed 11.6 A <u>7.6</u>	A	<u>Pass</u>
1	3,000	Electrical, 28 volts	Current shall not exceed 16.2 A <u>11.0</u>	A	<u>Pass</u>
1	3,000	Manual		N/A	<u>Pass</u>
1	3,000	Impact Test	Impact shackle 10x, shall not release	N/A	<u>Pass</u>
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ω <u>1.7</u>	Ω	<u>Pass</u>
1	N/A	Electrical Continuity	Across both wires	N/A	<u>Pass</u>

Test Conducted By: Michel Lalande
Technician

Signature: Sylvie Boucher
QC 5 Small FAB / QA

Submit

Check for
Damage

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C3-HC-OH
Job Sheet 196083



Part No: C3-HC-OH

Job Qty: 1 pcs

Part Name: C-Series Remote Hook 3,000 lbs Lift Capacity With Cage



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 6/5/19

Job Tracking No:

Due Date: 7/24/19

Created By: Jennifer Renwick

Type: SOLD

Description: RA699 / Order 16945 / 03-2344-07

Note: DWG O&OPM-C3 Rev. 4 IPP Rev. A 18.05.15 new issue DP Verify DD/IPP Rev. B 19.06.05 New process DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier	Sign-off
					Setup Hrs	Run Hrs		
110	External Load - Issue SN	1 pcs		7/24/19	0.00	0.00	External Load - 1 External Load - 2 External Load - 3	S193324 25
115	External Load - 2 - B4B	1 pcs		7/24/19	0.00	1.00	External Load - 1 - B4B External Load - 2 - B4B External Load - 3 - B4B	AP 2019/06/25
120	QC 5	1 pcs		7/24/19	0.00	0.00	QC 5 - 10 QC 5 - 12 QC 5 - 17 QC 5 - 18 QC 5 - 19 QC 5 - 22 QC 5 - 24 QC 5 - 3 QC 5 - 43 QC 5 - 49 QC 5 - 51 QC 5 - 58	N/A



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL : 1 613 632 - 5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S193324



Part: C3 - HC

Job No: 196083

Serial No/Batch: 03 - 2344 - 07

Revision: 4

Inspector:

Exp Date:

Instructions:

Date: 06/24/19

- 130 Customer Acceptance
- 140 Outsource - 2 - NDT per QSI038
- 150 Packaging 2-1 - Receive

WITH OLD
CAGE

6/5/2019

[Dart Hawkesbury] Job Sheet - Renwick, Jennifer

				Packaging 2 - 15 - B4B	
				Packaging 2 - 16 - B4B	
				Packaging 2 - 17 - B4B	
				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
160 QC 6	1	7/24/19	0.00 0.00	QC 6 - 9	
	pcs			QC 6 - 68	DAS
				QC 6 - 61	61
				QC 6 - 40	9-80
165 External Load - 3 - B4B	1	7/24/19	0.00 0.50	External Load - 1 - B4B	AP 2019/07/02
	pcs			External Load - 2 - B4B	
				External Load - 3 - B4B	
170 QC 5	1	7/24/19	0.00 0.00	QC 5 - 10	
	pcs			QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	SMA 19/7/12
				QC 5 - 68	
				QC 5 - 9	
				QC 5 - 50	
				QC 5 - 30	
				QC 5 - 40	
		7/24/19		GRO002-VC	KH 2019-07-02
		7/24/19	0.00 0.00	Packaging 2 - 1 - B4B	
				Packaging 2 - 2 - B4B	
				Packaging 2 - 3 - B4B	
				Packaging 2 - 5 - B4B	
				Packaging 2 - 4 - B4B	
				Packaging 2 - 6 - B4B	
				Packaging 2 - 7 - B4B	
				Packaging 2 - 8 - B4B	
				Packaging 2 - 9 - B4B	
				Packaging 2 - 10 - B4B	
				Packaging 2 - 11 - B4B	
				Packaging 2 - 12 - B4B	
				Packaging 2 - 13 - B4B	
				Packaging 2 - 14 - B4B	
				Packaging 2 - 15 - B4B	
				Packaging 2 - 16 - B4B	
				Packaging 2 - 17 - B4B	
				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	

Plex +

1 Kit = 4 pcs

Plex 6/5/19 3:21 PM Dart.Renwick.Jennife

					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
185	QC 6	1	7/24/19	0.00 0.00	QC 6 - 9	
		pcs			QC 6 - 68	DAS
					QC 6 - 61	61
					QC 6 - 40	9-88
190	External Load - 4 - B4B	1	7/24/19	0.00 2.00	External Load - 1 - B4B	AP 2019/07/23
		pcs			External Load - 2 - B4B	Michel 2019-
					External Load - 3 - B4B	
195	QC 5	1	7/24/19	0.00 0.00	QC 5 - 10	
		pcs			QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	
					QC 5 - 40	
200	Packaging 3-1 - Stock - B4B	1	7/24/19	0.00 0.00	Packaging 3 - 1 - B4B	
		pcs			Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	

					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
210 DC - 1 - B4B	1	7/24/19	0.00	0.00	DC - 1 - B4B	
	pcs				DC - 2 - B4B	
220 QC 21 - FG	1	7/24/19	0.00	0.00	QC 21 - FG - 21	
	pcs				QC 21 - FG - 70	
					QC 21 - FG - 53	

Part Op 110 - Issue S/N

Descriptions: 115 - 1-Remove hook from cage and identify as required. 2-TEST HOOK ASSEMBLY. DISASSEMBLE ASSEMBLY.
 INSPECT DAMAGE PART
 140 - LIQUID PENETRANT INSPECTION AS PER QSI 038
 160 - Triage parts to be sent out for plating
 165 - Prepare for nickel plate
 175 - -Issue P/O; _____ -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004- .0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required
 185 - (QC6- All purchased or subcontracted products)
 190 - 1-RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY. 2-Test hook as per drawing and test form. 3-RE-ASSEMBLE hook to cage.
 195 - (QC5- Inspect part completeness to step on W/O)
 200 - (Identify as per dwg & Stock Location: _____)
 210 - (Document Control) Photocopy blue file and create labels
 220 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-HC-AR	C-Series Remote Hook 3,000 lbs Lift Capacity With Cage	1 Ea (1 ea)	110-External Load - Issue SN	
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	190-External Load - 4 - B4B	
188-FSCS-832-5/8	Clock Spring Cover Screw	4 Ea (4 ea)	190-External Load - 4 - B4B	
600.1309-A	Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
600.1313	C3 Warning Label	1 pcs (1 ea)	190-External Load - 4 - B4B	
AN4-16A	Bolt	3 Ea (3 ea)	190-External Load - 4 - B4B	
AN4-17A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	
AN6-15A	Bolt	1 Ea (1 ea)	190-External Load - 4 - B4B	
C2-14-2	Label Rivets	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-1	Latch Shaft Du Bearing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C2-3-2-1	Roller Pin Retaining Ring	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-3-1	Latch Roller DU Bearing	1 pcs (1 ea)	190-External Load - 4 - B4B	
C2-3-5	Spacer, Teflon	2 Ea (2 ea)	190-External Load - 4 - B4B	
C2-3-8	Actuator Shaft Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-10-2	Lock Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-12-1	Lock Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-12-6	Lock Roller Pin Circlip	2 Ea (2 ea)	190-External Load - 4 - B4B	
C3-13-1	Keeper Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-13-5	Spring, Keeper	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-3-4-1	Ring, Retaining	4 pcs (4 ea)	190-External Load - 4 - B4B	
C3-3-9	Actuator Spring	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-4-1	Load Beam Bushing	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-7-1	Load Beam Bumper	1 pcs (1 ea)	190-External Load - 4 - B4B	
C3-7-2	Lock Bumper	2 pcs (2 ea)	190-External Load - 4 - B4B	
C3-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	190-External Load - 4 - B4B	
MS21044N4	Nut, Self-Locking	4 Ea (4 ea)	190-External Load - 4 - B4B	
MS21083N3	Nut	2 Ea (2 ea)	190-External Load - 4 - B4B	
MS21083N6	Nut	1 Ea (1 ea)	190-External Load - 4 - B4B	
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	
NAS1149F0332P	Washer	2 Ea (2 ea)	190-External Load - 4 - B4B	
NAS1149F0363P	Washer	1 Ea (1 ea)	190-External Load - 4 - B4B	
NAS1149F0432P	Washer	4 Ea (4 ea)	190-External Load - 4 - B4B	
NAS1149F0632P	Washer	2 Ea (2 ea)	190-External Load - 4 - B4B	

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-External Load - Issue SN 190-External Load - 4 - B4B	C3-HC	1	0	0
	188-FPSS-1032-1/4	2	135	0
	188-FSCS-832-5/8	4	55	0
	600.1309-A	1	82	0
	600.1313	1	21	0
	AN4-16A	3	533	0
	AN4-17A	1	386	0
	AN6-15A	1	36	0
	C2-14-2	2	140	0
	C2-3-1	2	42	0
	C2-3-2-1	2	58	0
	C2-3-3-1	1	40	0
	C2-3-5	2	39	0
	C2-3-8	2	24	0
	C3-10-2	1	10	0
	C3-12-1	2	27	0
	C3-12-6	2	36	0
	C3-13-1	2	10	0
	C3-13-5	1	91	0
	C3-3-4-1	4	70	0
	C3-3-9	1	45	0
	C3-4-1	2	15	0
	C3-7-1	1	29	0
	C3-7-2	2	18	0
	C3-8-4	1	37	0
	MS21044N4	4	61	0
	MS21083N3	2	93	0
	MS21083N6	1	35	0
	MS35266-63	1	38	0
	NAS1149F0332P	2	3,201	0
	NAS1149F0363P	1	395	0
	NAS1149F0432P	4	1,612	0
	NAS1149F0632P	2	341	0
Part Specifications				
Specifications could not be found.				

Plex 6/5/19 3:21 PM Dart.Renwick.Jennifer

Inspection Sheet Complete

RA699

DART Order #:

0

Part Number	Original Batch / Serial # / Ctrl #	Original Revision #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Original Container #	New (Receiving) Serial #	New Job #	Work order Instructions
C3-HC	03-2344-07		1	☒ Yes	☐ Yes	☐ Yes	☒ Yes	CUSTOMER SUPPLIED		S184957		Overhaul-Customer states there is damage?
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					

QC Approval: _____ 0

Date: 0-Jan-00 _____

Special Return/Rework Instructions:

Order 16945

Customer

OH 196083 / RA 16945

Date

2019/06/24

Part Number

C3

Serial Number

03-2344-07

ORDER : 16945

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(2) C3-3-4 LINK PIN

☐

(2) C2-11-2 PIN

☐

(1) C3-12-2 LOCK SHAFT

☐

(1) C3-12-4 LOCK ROLLER

☐

(1) C3-8-5 SELENOID COVER

☐☐☐☐☐☐

Inspected By

ALVIN PATRY

Work Order

OH 196083/RA699

Customer

ORDER: 16945

Serial Number

03-2344-07

Date

2019/06/24
MAGNAFLUX

Part Number	Description	Quantity	
C3-4-4A	Load Beam	1	
<u>C2-3-11</u>	Actuator Shaft	1	
C3-3-7	Link	1	
C3-3-4	Link Pins	—	
<u>C2-3-6</u>	Latch	1	
<u>C2-3-3</u>	Latch Roller	1	
<u>C2-3-2</u>	Latch Roller Pin	1	
<u>C2-3-10</u>	Latch Shaft	1	
C3-12-3	Lock	1	
C3-12-2	Lock Shaft	—	
C3-12-4	Lock Roller	—	
C3-12-5	Lock Roller Pin	1	

ZYGLO

Part Number	Description	Quantity	Pass/Fail
C3-2-1	Side Plate	1	
C3-11-1	Side Plate Solenoid	1	

TOTAL : 11 Pcs

Test Conducted By:

Signature:

Work Order OH 196083/RA699 Customer ORDER: 16945

Serial Number 03-2344-07 Date 2019/06/24

MAGNAFLUX

Part Number	Description	Quantity	
C3-4-4A	Load Beam	1	✓
C2-3-11	Actuator Shaft	1	✓
C3-3-7	Link	1	✓
C3-3-4	Link Pins	—	
C2-3-6	Latch	1	✓
C2-3-3	Latch Roller	1	✓
C2-3-2	Latch Roller Pin	1	✓
C2-3-10	Latch Shaft	1	✓
C3-12-3	Lock	1	✓
C3-12-2	Lock Shaft	—	
C3-12-4	Lock Roller	—	
C3-12-5	Lock Roller Pin	1	✓

ZYGLO

Part Number	Description	Quantity	Pass/Fail
C3-2-1	Side Plate	1	✓
C3-11-1	Side Plate Solenoid	1	✓

TOTAL : 11 Pcs

Test Conducted By:

Signature: _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043848



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043848

PO Date: 6/26/19

Due Date: 7/2/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: Rafik taking parts with him

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH196492	SWA3-2-OH	Electric Swivel 3,000 lb Safe Work Load (1,360 kg) LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	7/2/19	1 pcs	0 pcs	1 pcs	\$133.50/pcs	\$133.50
2	OH196573	SWA3-3-OH	Electric Swivel 3,000 lb Safe Work Load (1,360 kg) LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	7/2/19	1 pcs	0 pcs	1 pcs	\$133.50/pcs	\$133.50
3	196083	C3-HC-OH	C-Series Remote Hook 3,000 lbs Lift Capacity With Cage LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	7/2/19	1 pcs	0 pcs	1 pcs	\$133.50/pcs	\$133.50
4	OH196652	C60-OH	C-Series Remote Hook 6,000 lbs Lift Capacity LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	7/2/19	1 pcs	0 pcs	1 pcs	\$133.50/pcs	\$133.50
Grand Total:										\$534.00	

DAS
61
9-89



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043848



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/28/19 8:21 AM Dart.Guerin.Kimberley

**skyservice****Work Order Traveler**
Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO40879	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: POHB043848
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:

CARRY OUT NDT ON :

(1) ELECTRIC SWIVEL (2 PCS) P/N# SWA3-2-OH , J/S# OH196492 ✓

(1) ELECTRIC SWIVEL (2 PCS) P/N# SWA3-3-OH , J/S# OH196573 ✓

(1) C-SERIES REMOTE HOOK (11 PCS) P/N# C3-HC-OH , J/S# 196083 ✓

(1) C-SERIES REMOTE HOOK (12 PCS) P/N# C60-OH , J/S# OH195652 ✓

DAS
61
9-89

Action Taken:						Date:	Initial/Stamp:
LPI & MPI C/O IAW ASTM E-1417M-16 AND ASTM E-1444M-16							
NO CRACK FOUND							
PEN , ZL-37 MPO#: 23206 CLEANER SKC-S MPO15030, EMU.(ZR-10B, MPO23451), DEV. MPO15030, UV LIGHT M-20142							
MAGBENCH S/N 208123 CAL DUE: 25-SEP-2019							
POWDER 14A BATCH# MPO13600							
CARRIER II BATCH# MPO22794							
BLACK LIGHT-M20186							
RECEIVED JUN 28 2019 DART AEROSPACE LTD.							
						JUN 27 2019	DOT-APP 310 53-89 RV
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp DOT-APP 310 53-89	Date: JUN 27 2019
Name: RICARDO VARGAS		



NICKEL PLATING

DATE: 07/02/2019

MODEL: C3

S/N : 03-2344-07

JOB : OH 196083 / RA 699

ORDER : 16945

P/N	DESCRIPTION	QUANTITY
-----	-------------	----------

C3-4-4A	LOAD BEAM	1
C3-12-3	LOCK	1
C3-12-2	LATCH SHAFT	1
C3-12-5	LOCK ROLLER PIN	1

ADD PARTLY

TOTAL

4



NICKEL PLATING

ORDER : 16945

P/N	DESCRIPTION	QUANTITY
C3-4-4A	LOAD BEAM.	1 ✓
C3-12-3	LOCK	1 ✓
C3-12-2	LATCH SHAFT Q3-10?	1 ✓
C3-12-5	LOCK ROLLER PIN	1 ✓
AJIN PATRY	TOTAL	4



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER POHB043883



Supplier: GRO002-VC
Group Altech
2455 Halpern
St Laurent
QC
H4S 1N9 Canada
Phone: 514-335-3666
Fax: 514-335-3868

Attention: Grenon, Sylvie

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043883

PO Date: 6/28/19

Due Date: 7/8/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground
Pynt Terms: Net 60

Freight Terms:

Special Comments:

E-MAILED
2019-07-05

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH194545	C60-OH	C-Series Remote Hook 6,000 lbs Lift Capacity -Issue P/O; -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004-.0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required	Firmed	-	7/8/19	1 pcs	0 pcs	1 pcs	\$140.00/pcs	\$140.00

1 X
= 9 PCS

JUL 11 2019

Line Item Note 1 kit = 9 pcs

2	OH195119	C45-OH	C-Series Remote Hook 4,500 lbs Lift Capacity -Issue P/O; -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004-.0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required	Firmed	-	7/8/19	1 pcs	0 pcs	1 pcs	\$130.00/pcs	\$130.00
---	----------	--------	---	--------	---	--------	-------	-------	-------	--------------	----------

1 X
= 7 PCS

JUL 11 2019

Line Item Note 1 kit = 7 pcs



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043883



Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	OH196525	C45-K-OH	C-Series Remote Hook 4,500 lbs Lift Capacity - Keeperless -Issue P/O; Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004-.0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required	Firmed	-	7/8/19	1 pcs	0 pcs	1 pcs	\$130.00/pcs	\$130.00
Line Item Note 1 kit = 4 pcs											
4	196083	C3-HC-OH	C-Series Remote Hook 3,000 lbs Lift Capacity With Cage -Issue P/O; -Nickel plate, QQ-N-290, Class 2, Grade E or F -Nickel Plate .0004-.0006 -Bake after plating -Material type; 4140 -Certificate of Conformity is required	Firmed	-	7/8/19	1 pcs	0 pcs	1 pcs	\$125.00/pcs	\$125.00
Line Item Note 1 kit = 4 pcs											
Grand Total:										\$525.00	

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Certificat de Conformité / Certificate of Compliance

(020430-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9
 Tel: 514-335-3666 Fax: 514-335-3868
 www.groupaltech.com

Bon de Livraison / Packing Slip

020430- 1

Livré à / Ship to

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 Tel.: 613-632-5200 Fax.:

Client / Customer:

DART AEROSPACE LTD
 1270 ABERDEEN STREET
 HAWKESBURY, ON, K6A1K7
 CANADA
 BUYER:

Date expédition Ship date		Créé Par Generated By	Transport / No de Compte Courier / Acc. No.	Bon de commande Client Customer Purchase Order No.				
08-Jul-2019		SVETLANA DORZHIYEVA		POHB043883				
#Ligne Line#	No. de Série / # Pièce Part Number /Line Item Details Job # / Ref #	Description pièce(s)	CATG. U/M	Comm. /Ordered	Exp/ Shipped	Qté NC/ NC Qty	Qté Scrap/	À venir/ Back Order
1	C60-OH ✓ Rev.	C60-OH BRIGHT NICKEL ON STEEL QQ-N-290 CLASS 2 GRADE E OR F 0.0004 TO 0.0006 THICK BAKE AFTER PLATING STRIP AND REPLATE	BRIGHT NICKEL ON AL/ LOT	1	1	= 90 PCS		0
2	C45-OH ✓ Rev.	C45-OH BRIGHT NICKEL ON STEEL QQ-N-290 CLASS 2 GRADE E OR F 0.0004 TO 0.0006 THICK BAKE AFTER PLATING STRIP AND REPLATE	BRIGHT NICKEL ON AL/ LOT	1	1	= 7 PCS		0
3	C45-K-OH ✓ Rev.	C45-K-OH BRIGHT NICKEL ON STEEL QQ-N-290 CLASS 2 GRADE E OR F 0.0004 TO 0.0006 THICK BAKE AFTER PLATING STRIP AND REPLATE	BRIGHT NICKEL ON AL/ LOT	1	1	= 4 PCS		0
4	C3-HC-OH ✓ Rev.	C3-HC-OH BRIGHT NICKEL ON STEEL QQ-N-290 CLASS 2 GRADE E OR F 0.0004 TO 0.0006 THICK BAKE AFTER PLATING STRIP AND REPLATE	BRIGHT NICKEL ON AL/ LOT	1	1	= 4 PCS		0
5	STRIP CHARGE Rev.	STRIP CHARGE 01 -STRIP [STRIP]	STRIP MIN-CHG	1	1	0	0	0
6	BAKING CHARGE Rev.	BAKING CHARGE 01 -BAKING, HYDROGEN EMBRITTLEMENT RELIEF	BAKE MIN-CHG	1	1	0	0	0

RECEIVED

JUL 10 2019

DAS
61
9-89

Notes Additionnelles / Additional Notes

DART AEROSPACE LTD.

4 BOXES

Epaisseur réelle
Actual Thickness

Inspecteur Qualité
Quality Inspector

Réçu par
Received By

J.B. JAY

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.
 Our financial and legal responsibility will not be higher than the amount of invoice.

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: <u>196083</u> Part No. <u>C3-12-3</u>	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☒ Quality ☐		
Date : <u>19/07/11</u>	Sequence #: <u>175</u>	QTY Affected : <u>1</u>		MRB (QSI042) DAS 55 9-89 <u>JUL 15 2019</u>
Description Work Order Deviation		Disposition		
<u>Incorrect finish.</u>		<u>NO EVIDENCE OF PLATING</u> <u>RE WORK ACCORDINGLY.</u> 		Completed By DAS 61 9-89 Lead hand / Supervisor DAS 30 9-89 <u>AUG 1 2019</u> QC / QA Coordinator
Root Cause Operator ☐ Manufacturing Process ☒ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☒ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread		
Other/Details: <u>P046043883</u> <u>Line 4</u>				



Overhaul Incoming Inspection

C3 Cargo Hook

Customer

OH 196083 / RA 699

Date

2019/06/24

Part Number

C3

Serial Number

03-2344-07

ORDER : 16945

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

1(2) C3-3-4 LINK PIN

☒ gk

1(2) C2-11-2 PIN

☒

1(1) C3-12-2 LOCK SHAFT

☒ 6-27-19

1(1) C3-12-4 LOCK ROLLER

☒ Approved

1(1) C3-8-5 SELENOID COVER

☒

☐

☐

☐

☐

☐

Inspected By

ALAN PATRY

JOB Born Update
Sent Sales 6-26-19

Jennifer Renwick

From: Kinga Lysiak
Sent: Thursday, June 27, 2019 5:27 AM
To: Jennifer Renwick; Chantal Chartrand
Subject: FW: Damaged Cargo Hook ORDER 16945
Attachments: SKM_C224e_Q19062606560.pdf; QU17558.pdf

Hi Jen,

This has been accepted
I didn't get a revised PO, but will attached email with the approval to the order

@Chantal, please amend the order and let me know so I can close 17558

If you require further information, please feel free to get back to me

Thank you

Best regards
Kinga Lysiak
Inside Sales Representative

DART AEROSPACE
M +44(0)7828775275
1 800 556- 4166
www.dartaerospace.com

For technical support, click [here](#).
To access technical documentation, create your account [here](#).



From: Jennifer Renwick <jrenwick@dartaero.com>
Sent: Wednesday, June 26, 2019 1:08 PM
To: Kinga Lysiak <klysiak@dartaero.com>
Subject: FW: Damaged Cargo Hook ORDER 16945

Hi Kinga,

Please see the attached inspection sheet for RA699. Please confirm once the customer has approved the extra charges.

Kind regards,
Jen

From: Jennifer Renwick
Sent: Thursday, June 20, 2019 8:18 AM
To: Sylvie Boucher <sboucher@dartaero.com>

Cc: Linda Lacelle <llacelle@dartaero.com>; Jason Leroux <jleroux@dartaero.com>

Subject: FW: Damaged Cargo Hook ORDER 16945

Hi Sylvie,

Can you please advise when Alain will be done with the inspection? Please see details below:

Order 16945

Job 196083

RA699

SN -03-2344-07

Thank you,

Jen

From: Kinga Lysiak <klysiak@dartaero.com>

Sent: Thursday, June 20, 2019 7:03 AM

To: Jennifer Renwick <jrenwick@dartaero.com>

Subject: FW: Damaged Cargo Hook ORDER 16945

Hey Jen

Will you be able to tell me where we are with this OH ?

The list of spares has not been sent , not sure if not required or not ready

The customer is chasing delivery ☹

If you require further information, please feel free to get back to me

Thank you

Best regards

Kinga Lysiak

Inside Sales Representative

DART AEROSPACE

M +44(0)7828775275

1 800 556- 4166

www.dartaerospace.com

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From: Bård Kjesbu <Bard.Kjesbu@helitrans.no>

Sent: Thursday, June 20, 2019 11:58 AM

To: Kinga Lysiak <klysiak@dartaero.com>

Cc: Marc Bisbal <bisbal@heliswiss.es>

Subject: SV: Damaged Cargo Hook ORDER 16945

Hello

Any more update around this one and status when it will be finished from you?

Best Regards
Bård Kjesbu
Manager Ground Operations



Tlf + 47 97148720
bard.kjesbu@helitrans.no
www.helitrans.no

Denne e-posten er beregnet for den institusjon, firma eller person den er rettet til og kan være belagt med lovbestemt taushetsplikt.

Dersom e-posten er feilsendt, vennligst slett den og kontakt Helitrans AS på tlf 48313000.

This email is confidential and may also be privileged. If you are not the intended recipient, please notify Helitrans AS, immediately.

Fra: Kinga Lysiak <klysiak@dartaero.com>
Sendt: onsdag 5. juni 2019 10.34
Til: Bård Kjesbu <Bard.Kjesbu@helitrans.no>
Kopi: Marc Bisbal <bisbal@heliswiss.es>
Emne: RE: Damaged Cargo Hook ORDER 16945

Hello Bard

We have made an initial inspection on the hook – the standard overhaul needs to be done (attached is the order)
Please note that the overhaul cost includes the normal replacement parts. If any issues are found, we will notify of the issue and cost before proceeding.

I will also confirm the lead time asap

If you require further information, please feel free to get back to me

Thank you

Best regards
Kinga Lysiak
Inside Sales Representative

DART AEROSPACE
M +44(0)7828775275
1 800 556- 4166
www.dartaerospace.com

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From: Bård Kjesbu <Bard.Kjesbu@helitrans.no>
Sent: Tuesday, June 4, 2019 6:52 PM
To: Kinga Lysiak <klysiak@dartaero.com>
Cc: Marc Bisbal <bisbal@heliswiss.es>
Subject: Re: Damaged Cargo Hook

Hello

Can you check status for this one?

Mvh Bård Kjesbu
97148720
Sendt fra min iPhone

23. mai 2019 kl. 11:11 skrev Kinga Lysiak <klysiak@dartaero.com>:

Hello Bard,

If you'd like to ship to Canada , please ship to

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Please send the tracking number once shipped

We can't provide TAT , as we won't know until the hook is received and inspected

In order to get TAT from Drallim in UK, you need to contact them direct

Phil Wilson
Divisional Manager Aerospace
Direct Line +44 (0) 1424 205160
Mobile +44 (0) 7789 115880
pwilson@drallim.com

If you require further information, please feel free to get back to me

Thank you

Best regards
Kinga Lysiak
Inside Sales Representative

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M +44(0)7828775275
1 800 556- 4166
www.dartaerospace.com

For technical support, click [here](#).
To access technical documentation, create your account [here](#).

<image002.jpg>

From: Bård Kjesbu <Bard.Kjesbu@helitrans.no>
Sent: Thursday, May 23, 2019 8:17 AM
To: Kinga Lysiak <klysiak@dartaero.com>
Cc: Marc Bisbal <bisbal@heliswiss.es>
Subject: SV: Damaged Cargo Hook

Hello

Didn't get anything from you on this one yesterday.
I need to take action as soon as possible. So please send me details for shipping.

Best Regards
Bård Kjesbu
Manager Ground Operations
<image003.jpg>

Tlf + 47 97148720
bard.kjesbu@helitrans.no
www.helitrans.no

*Denne e-posten er beregnet for den institusjon, firma eller person den er rettet til og kan være belagt med lovbestemt taushetsplikt.
Dersom e-posten er feilsendt, vennligst slett den og kontakt Helitrans AS på tlf 48313000.
This email is confidential and may also be privileged. If you are not the intended recipient, please notify Helitrans AS, immediately.*

Fra: Bård Kjesbu
Sendt: onsdag 22. mai 2019 08.25
Til: Kinga Lysiak <klysiak@dartaero.com>
Kopi: Marc Bisbal <bisbal@heliswiss.es>
Emne: SV: Damaged Cargo Hook

Hello

It doesn't matter where I send it.
The most important is that the repair is made as quickly as possible.

If this is in Canada, then I will ship it there.

So just make your own decision on this, and send me shipping details.

Best Regards
Bård Kjesbu
Manager Ground Operations
<image003.jpg>

Tlf + 47 97148720

bard.kjesbu@helitrans.no
www.helitrans.no

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Fra: Kinga Lysiak <klysiak@dartaero.com>
Sendt: tirsdag 21. mai 2019 16.15
Til: Bård Kjesbu <Bard.Kjesbu@helitrans.no>
Kopi: Marc Bisbal <bisbal@heliswiss.es>
Emne: FW: Damaged Cargo Hook

Hi Bard

Sorry to hear there is an issue with the hook

We can work on the hook in Canada, however we have an approved company in the UK that will be able to help, this should save you on the shipping cost
However If you prefer you can send it over to us, please let me know

Below are the contact details for UK if you'd like a quote from them
Please advise you were referred by DART

Phil Wilson

Divisional Manager Aerospace
Direct Line +44 (0) 1424 205160
Mobile +44 (0) 7789 115880
pwilson@drallim.com

www.Drallim.com

If you require further information, please feel free to get back to me

Thank you

Best regards
Kinga Lysiak
Inside Sales Representative

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M +44(0)7828775275
1 800 556- 4166
www.dartaerospace.com

For technical support, click [here](#).
To access technical documentation, create your account [here](#).

<image002.jpg>

From: Bård Kjesbu <Bard.Kjesbu@helitrans.no>

Sent: Tuesday, May 21, 2019 12:07 PM

To: Marc Bisbal <bisbal@heliswiss.es>

Cc: Kinga Lysiak <klysiak@dartaero.com>

Subject: Damaged Cargo Hook

Hello

We have managed to damage one cargo hook.

We're not sure if it's only the guard, or if the Cargo hook is also damaged.

In any case, we need to send this one for check / repair as soon as possible.

Enclosed, you will find the certificate.

So I do I proceed ?

Best Regards

Bård Kjesbu

Manager Ground Operations

<image003.jpg>

Tlf + 47 97148720

bard.kjesbu@helitrans.no

www.helitrans.no

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Pre test

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

NEW SOLENOID (152951-001)

Work Order 196083Customer RA 699Serial Number 03-2344-07Date 2019-6-24

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	7,500	Static Hold	Hold for two minutes and reduce load to zero	N/A	<u>Pass</u>
10	1,500	Electircal, 25 volts	No "hang ups" permitted	N/A	<u>Pass</u>
2	3,000	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>7.8</u> A	<u>Pass</u>
2	2,500	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>7.6</u> A	<u>Pass</u>
2	2,000	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>7.7</u> A	<u>Pass</u>
2	1,500	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>7.7</u> A	<u>Pass</u>
2	500	Electircal, 22 volts	Current shall not exceed 12.8 A	<u>7.7</u> A	<u>Pass</u>
1	3,000	Electircal, 20 volts	Current shall not exceed 11.6 A	<u>7.0</u> A	<u>Pass</u>
1	3,000	Electircal, 28 volts	Current shall not exceed 16.2 A	<u>10.0</u> A	<u>Pass</u>
1	3,000	Manual		N/A	<u>Pass</u>
1	3,000	Impact Test	Impact shackle 10x, shall not release	N/A	<u>Pass</u>
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ω	<u>2.0</u> Ω	<u>Pass</u>
1	N/A	Electircal Continuity	Across both wires	N/A	<u>Pass</u>

Test Conducted By:

Michel Lalonde

Technician

Submit

Signature: _____

QC 5 Small FAB / QA

Jennifer Renwick

Order 16945 - RA699
job 196083

From: Kinga Lysiak
Sent: Thursday, August 01, 2019 9:02 AM
To: Jennifer Renwick
Cc: Linda Lacelle
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699
Attachments: RE: Damaged Cargo Hook ORDER 16945 - RA699

Hi Jen

Yesterday JL auth shipping of the hook on DART acc

Please ship asap , separately, both on DART acc

If you require further information, please feel free to get back to me

Thank you

Best regards
Kinga Lysiak
Inside Sales Representative

DART AEROSPACE
M +44(0)7828775275
1 800 556- 4166
www.dartaerospace.com

For technical support, click [here](#).
To access technical documentation, create your account [here](#).



From: Jennifer Renwick <jrenwick@dartaero.com>
Sent: Thursday, August 1, 2019 1:57 PM
To: Kinga Lysiak <klysiak@dartaero.com>
Cc: Linda Llacelle <llacelle@dartaero.com>
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699

Hi Kinga,

Can you please confirm if we are shipping the overhauled hook with the new cage installed? If yes, we need to amend the dates and add the C3-C to the order – shipping on Dart's account.

Can you please confirm?

Thank you,
Jen

Ship- c3 hook
uninstalled to
cage.

From: Jennifer Renwick
Sent: Wednesday, July 31, 2019 11:11 AM
To: Kinga Lysiak <klysiak@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>
Cc: Adrien Dillard <adillard@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699

Hi Kinga,

I'm apologies for the delay. We are missing the following purchased parts to complete the cage, but the PO has been placed.

MS24665-355 – 5-7 days lead-time
NAS1351-6-28 – 5- 7 days lead-time

If it helps the customer we can send the overhauled hook back right away. The new cage will ship the week of August 12th on Dart's account.

Please advise on how you wish to proceed.

Thank you,
Jen

From: Jennifer Renwick
Sent: Thursday, July 25, 2019 11:33 AM
To: Kinga Lysiak <klysiak@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>
Cc: Adrien Dillard <adillard@dartaero.com>
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699

Hi Kinga,

My sincere apologies for this miscommunication. I am working on the lead-time, just waiting for the procurement team to get back to me on lead-time for purchased hardware. I will revert back shortly.

Kind regards,
Jen

From: Kinga Lysiak <klysiak@dartaero.com>
Sent: Thursday, July 25, 2019 8:00 AM
To: Linda Lacelle <llacelle@dartaero.com>; Jennifer Renwick <jrenwick@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>
Cc: Adrien Dillard <adillard@dartaero.com>
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699

Hi Linda

I understand this is the procedure when the hooks are sent for overhaul, just because the unit was sent damaged I thought we will do 'overall' check

Jen, please let me know best date when hook and new cage can be sent together and I will inform the customer

Thank you

If you require further information, please feel free to get back to me

Thank you

Best regards
Kinga Lysiak
Inside Sales Representative

DART AEROSPACE
M +44(0)7828775275
1 800 556- 4166
www.dartaerospace.com

For technical support, click [here](#).
To access technical documentation, create your account [here](#).



From: Linda Lacelle <llacelle@dartaero.com>
Sent: Thursday, July 25, 2019 12:31 PM
To: Kinga Lysiak <klysiak@dartaero.com>; Jennifer Renwick <jrenwick@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>
Cc: Adrien Dillard <adillard@dartaero.com>
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699

Kinga,
You have to understand that the O/H is done on the hook. We take it apart, put the cage aside and do the O/H on the hook. This came up when they were about to assemble it back together.
JL,
I think the O/H process needs to be more defined. We are unsure for O/H's for new parts for assy etc (let's chat pls)
Jenn,
I believe the cage P/N is C3-C...seems we have everything in stock to make 1, except the bumper assy..can you pls check into this and with Eric L to see how fast this can be done and get back to Kinga asap?

Thx
L

From: Kinga Lysiak <klysiak@dartaero.com>
Sent: Thursday, July 25, 2019 5:05 AM
To: Jennifer Renwick <jrenwick@dartaero.com>
Cc: Linda Lacelle <llacelle@dartaero.com>; Adrien Dillard <adillard@dartaero.com>
Subject: RE: Damaged Cargo Hook ORDER 16945 - RA699

Hi Jen

Thanks, but am a bit surprised that the problem with the cage only came up now
As the unit was sent for repair, did we not evaluate both the hook and the cage when it arrived ?

I know that the customer will not be happy, we have had the unit for almost 2 months

RETURN AUTHORIZATION



RA #: RA699
Date: May 28, 2019
Attention: Bård Kjesbu
E-mail: Bard.Kjesbu@helitrans.no>
From: Jennifer Renwick

RETURN ADDRESS

☒ Hawkesbury	☐ Vista	☐ Broussard
Dart Aerospace Ltd	Dart Aerospace Ltd.	Dart Aerospace Ltd.
1270 Aberdeen Street	3030 Enterprise Court, Suite A	105 Dairy Lane
Hawkesbury, ON K6A 1K7, CA	Vista, CA 92081-8347, US	Broussard, LA 70518, US
1-613-632-3336	1-760-724-5300	1-337-839-0500

SHIPPING

Courier: Customers Choice
Account #: Customers Account

COMMERCIAL INVOICE INFORMATION

Item #1		Item #2	
P/N:	C3-HC	P/N:	0
Description:	Hook and cage	Description:	0
Qty:	1	Qty:	0
Flown:	Yes	Flown:	0
Return to Customer:	Yes	Return to Customer:	0
Customs Value USD:	\$500	Customs Value USD:	\$0
Batch / Serial #	03-2344-07	Batch / Serial #	0
Item #3		Item #4	
P/N:	0	P/N:	0
Description:	0	Description:	0
Qty:	0	Qty:	0
Flown:	0	Flown:	0
Return to Customer:	0	Return to Customer:	0
Customs Value USD:	\$0	Customs Value USD:	\$0
Batch / Serial #	0	Batch / Serial #	0
Item #5		Item #6	
P/N:	0	P/N:	0
Description:	0	Description:	0
Qty:	0	Qty:	0
Flown:	0	Flown:	0
Return to Customer:	0	Return to Customer:	0
Customs Value USD:	\$0	Customs Value USD:	\$0
Batch / Serial #	0	Batch / Serial #	0

ADDITIONAL RETURN AUTHORIZATION INFORMATION

- Print RA form, complete Part Disposition section and include a copy with the shipment.
- Ensure the RA number is referenced on all documents. Failure to do so may result in delivery refusal.
- Ensure the shipment is directed to the correct facility referenced above. Failure to do so will result in delays and additional shipping costs.
- Commercial invoice must include the following statement: "Parts are aircraft parts being returned to the manufacturer."
- International shipments require commercial invoice attached to the outside of the box.
- Where applicable, the original Release Certificate, STC's, Installation Instructions, Maintenance Manual Supplement, Flight Manual Supplement, packing slips and removable tag must accompany the shipment.
- Return authorization expires in 30 days. If no charge products were supplied, these will be invoiced upon expiration of the RA.
- Returned items will be fully inspected by Quality Control and credit will be issued for items deemed to be new, un-flown, traceable and to the current revision.
- A 15% minimum restocking fee applies, additional fees may apply upon receipt and inspection if items require rework or cannot be returned to stock
- Items should be adequately packaged to prevent shipping damage.
- For complete terms & conditions, visit www.dartaerospace.com

PART DISPOSITION (To be completed and returned by customer)

Reason for return:

DART
AEROSPACE

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
CANAUD 613 632-6200
TEL.: sales @ dartaero.com
Email: sales @ dartaero.com
www.dartaerospace.com

Container No: S184957



Part: C3-MC

Job No:

Serial No/Batch: 000000753

Revision:

Inspector:

Exp Date:

Instructions:

Date: 06/29/19

RA? Helitrans(Norway) Cargo Hook

① Flag for follow up.

NB

Natasha Belanger

Wed 5/29/2019 6:59 AM

Jennifer Renwick; Lisa McMachen; Virginie Legault ▾



Image.pdf

919 KB

Good Morning,

Please see attached documents, no RA provided.

Please advise....

Thank you,

Natasha

Warehouse Receiver

DART AEROSPACE

T 1 613 632-5200 > 248

F 1 613 632-5246

1 800 556- 4166

www.dartaerospace.com





**Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada**

**Trondheim Lufthavn Værnes
7502 Stjørdal
NORWAY**

NO 980313360 MVA

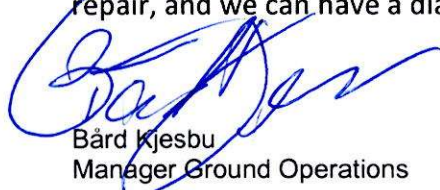
Phone: +47 48 31 30 00

Fax: +47 74 82 76 25

www.helitrans.no

Repair of Cargo hook

In the shipment, you will find a Cargo Hook that is damaged. Please send me quote on the repair, and we can have a dialog around the process to fix this one again.

A handwritten signature in blue ink, appearing to read 'Bård Kjesbu', written over the printed name and title.

**Bård Kjesbu
Manager Ground Operations**



Tlf + 47 97148720

bard.kjesbu@helitrans.no

www.helitrans.no

HT-21

		2 CONFORMITY RELEASE CERTIFICATE			3 Form Tracking Number 03-2344-07	
4 Organization Name and Address DART Aerospace 190 S Danebo Ave. Eugene, OR 97402					5 Work Order/Contract/Invoice Number: PO# 36058 Cust PO# HWS PO-17D-0611 Shipper# 18242	
6. Item:	7. Description:	8. Part Number	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	Remote Cargo Hook 3,000 LBS.	C3-HC	T.B.V. by Install	1	03-2344-07	New
13. Remarks: EXPORT 1 Remote cargo hook manufactured IAW DART Aerospace Design Data. 2 Remote cargo hook manufactured proof load applied at 7,500 LBS. Safe working load is 3,000 LBS. 3 Item is being shipped to HELITRAN AS. STJORDAL, NORWAY. TSO: 0.0						
14. Certifies that the items identified above were manufactured in conformity to: ☒ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in Block 13				19 ☐ DART Aerospace Maintenance Release		
15. Authorized Signature: 				20. Authorized Signature: 		
17. Name (Typed or Printed): Mark McKinney 		18. Date (mm/dd/yy): 4/25/2017		22. Name (Typed or Printed): 		23. Date (mm/dd/yy):
*Installer must cross check eligibility with applicable technical data.						



Trondheim Lufthavn Værnes
7502 STJØRDAL
NORWAY

Tel. +47 48 31 22 98

E-mail. storage@helitrans.no

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Attn: Phil Wilson
Order No. 000961
Order date: 23.05.19

Phone: +44(0)7828775275
e-mail: klysiak@dartaero.com
Delivery date:

Proforma Invoice

Item nr.	Art.No.	SN	Description	Price
1	C3-HC	03-2344-07	REMOTE CARGO HOOK	\$ 500

Total amount: USD 500, -

Value for Customs purpose only
Org. No. 980313360
Customs Acc. No. 30731134

The exporter of the products covered by this document
declares that, except where otherwise clearly indicated.
These products are of EEA preferential origin.

REMARKS: Repair and return

Stjørdal 23.05.2019

Exporters signature


Bard Kjesbu
Helitrans AS